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Fig. 1.

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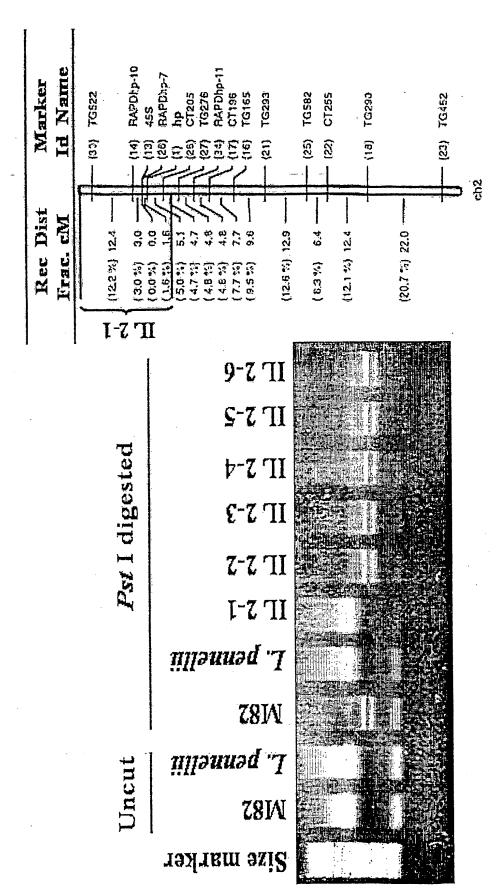


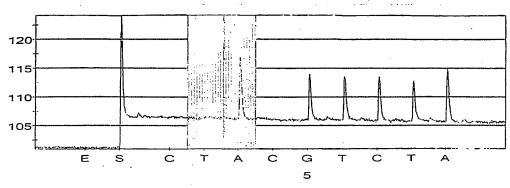
Fig. 2

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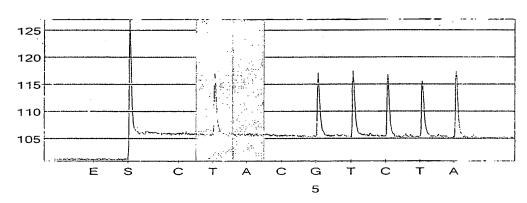
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Fig. 3

a. hp-1/hp-1



b. +/+



c. hp-1/+

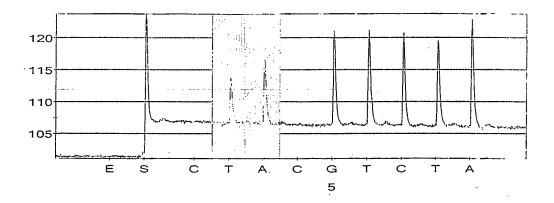


Fig. 4

817 817 818 772 772 774 774 285 285 282 282 283 293 Gg Hs Dm At_DDB1B At_DDB1A Le Os Gg Hs Dm At_DDB1B At_DDB1A

881 TIGAGCIACTGGGGGAAACTTCTATTGCATCATATCATACCTAGAC ${f A}$ ATGCTTTTGTCTTCATTGGCTAGCTAC ATGATGCTGTATACAACCAGCTTGTTCAGGTTACTTCAAATTCTGTTAGATTGGTCAGTTCTACCTCTAGAGATCTGAAA AACGAGTGGTTTGCCCCAGTCGGCTACTCGGTCAATGTTGCAACTGCTAATGCCACTCAGGTACTATTGGCTACTGGGGG 1681 AGGATATATTCACTTCCTGACTTGAATCTCATTACAAGGAACAGCTAGGAGGGGGGGATAATTCCTCGTTCTGAT 1761 GTGTTCCTTCGAAGGGATATCTTATCTACTATGTGCTTTGGGAGATGGCCATCTCTTGAATTTTGTATTGAGCATGAGTA 721 AGCGCTTCAGCTTTTAAGGCTATCCCAATTAGACCTTCTATCACAAGAGCATATGGGCGGGTTGATGCTGATGGTTCTCG 801 ATATTIGCTIGGGGAICATAATGGGCTICTICACCTACTIGTAATCACTCATGAGAAGGAGAAAGTIACCGGACTCAAAA 961 GGAGATTCACAGCTİGTAAAGCTCAATCTCCAGCCTGACACGAAGGTTCTTATGTGGAAGTTCTAGAGATATGTCAA 1041 TITAGGACCTATIGTGGACTICTGTTGTTGATCTGGAAAGGCAAGGTCAAGGTCAGGTTGTAACTTGCTCTGGAGCCT 1121 ATAAGGATGGATCACTTCGTATTGTTCGAAATGGAATTGGCATAAATGAACAGGCGTCTGTGGAACTACAAGGGATCAAA GGAATGTGGTCTCTTAGATCTGCTACTGATGATCCATATGACACATTCTTGGTTGTTAGCTTCATTAGTGAGACACGCGT TTTGGCTATGAACCTTGAGGATGAGCTGGAAGAACTGAGATAGAAGGCTTCAATTCTCAAGTCCAGACCTTGTTTTGTC CIGGIGAGCIGACAGATAGGAAAAAGITICICTIGGGACACAGCCCATAACACITCGTACAITCICATCTAAAGATACI

81

1 ATGAGTGTATGGAACTACGTGGTTACGGCTCACAAACCAACAAATGTTACACATTCCTGTGTTGGCAATTTCACCGGTCC 161 TAGATGTGCCAATATATGGGAGGATCGCGACACTTGAGCTTTTTCGTCCTCACGGTGAAACACAAGATCTTCTTTTATC GCAACAGAGCGATATAAATTCTGTGTCCTTCAATGGGATACTGAGGCATCTGAAGTTATCACAAGAGCAATGGGAGATGT GTCAGACCGAATAGGCCGTCCCACAGATAATGGTCAGATTGGTATAATTGATCCAGATTGCAGATTGATCGGGGCTACATC CTICAAGTITTAGATATTAAATTCTTGTATGGTTGCCCAAAGCCTACAATTGTTGTTGTTATATCAGGATAACAAGGATGC CCGGCATGTCAAAACATATGAGGTGTCCTTGAAAGACAAAGATTTTATTGAAGGGCCCATGGGCTCAAAATAATCTTGATA

561

CAATTGGCACTATTGATGAAATTCAAAAGCTTCACATTCGTTCAATACCCCTTGGGGAGCATGCACGTCGCATCAGCCAT GCTGCTCCTTTTCTGATGATAGTAATGTGTATTATTGCATTGGAACTGCATATGTGATGCCAGAGGAAAATGAACTACT 2401 AAGGGCCGAATTTTAGTTTTTATAGTTGAAGATGGAAAGCTCCAGCTAATTGCTGAGAAGGAAACTAAGGGAGCTGTCTA 3041 IGCAGACAAACTTACGGAAAGTGATAAAGGGTGTGGGAGGTCTGAGCCATGGAGCAGTGGAGGTCGTTTTACAATGAGAAG 1921 ACACATGTCTTTGCTGCCTCCGATAGGCCAACAGTTATTTACAGCAGTAACAAGAAGCTGCTTTATAGCAATGTAAATCT **AAAAGAAGTTAGTCATATGTGCCCATTCAATGTTGCAGCTTTTCCAGACAGCCTTGCAATCGCTAAAGAAGGTGAGTTAA** 2241 CCGCCTGTTGGATCAGACATTTGAGTTCATATCACATATCCCCTTGACCAATTTGAATATGGCTGTTCCATACTAA CTCTCTAAATGCCTTCAATGGGAAACTGCTTGCTGCAATCAAATCAGAAGATTGAATTGTACAAGTGGGCTTCGCGTGAGG ATGGTGGCAGCCGAGAATTGCAGACAGAATGTGGACACCATGGTCATATATTAGCTCTTTATGTTCAAACACGTGGGGAT 2161 CAAGAGCAGACCCGGACATTTGCTCTATGCAGTGTATACTCAGTCAAATGCAGATGATGCTGAAATGCATTTTGT 2721 CAGAGACTATAATGCAAATTGGATGTCAGCTGTTGAGATTCTCGATGATGACATTTATCTTGGTGCTGAGAATAACTTCA 2881 CTTGGCGAATTTGTTAATAGGTTTAGACATGGTTCACTTGTCATGCGACTACCAGATTCAGATGTTGGGCAGATACCCAC 2481 2641 2321 2561

Fig. 6

81 ATERYKFCVLQWDTEASEVITRAMGDVSDRIGRPTDNGQIGIIDPDCRLIGLHLYDGLFKVIPFDNKGQLKEAFNIRLEE 1 MSVWNYVVTAHKPTNVTHSCYGNFTGPQELNLIIAKCTRIEIHLLTPQGLQPMLDVPIYGRIATLELFRPHGETQDLLFI

721 QEQTRIFALCSVKYTQSNADDPEMHFVRLLDDQTFEFISTYPLDQFEYGCSIISCSFSDDSNVYYCIGTAYVMPEENEPT 241 SASAFKAIPIRPSITRAYGRVDADGSRYLLGDHNGLLHLLVITHEKEKVTGLKIELLGETSIASTISYLD**N**AFVFIGSSY 161 LQVLDIKFLYGCPKPTIVVLYQDNKDARHVKTYEVSLKDKDFIEGPWAQNNLDNGASLLIPVPPPLCGVLIIGEETIVYC 321 GDSQLVKLNLQPDTKGSYVEVLERYVNLGPIVDFCVVDLERQGQGQVVTCSGAYKDGSLRIVRNGIGINEQASVELQGIK 401 GMWSLRSATDDPYDTFLVVSFISETRVLAMNLEDELEETEIEGFNSQVQTLFCHDAVYNQLVQVTSNSVRLVSSTSRDLK 561 RIYSLPDLNLITKEQLGGEIIPRSVLMCSFEGISYLLCALGDGHLLNFVLSMSTGELTDRKKVSLGTQPITLRTFSSKDT 801 KGRILVFIVEDGKLQLIAEKETKGAVYSLNAFNGKLLAAINQKIQLYKWASREDGGSRELQTECGHHGHILALYVQTRGD I.GEFVNRFRHGSLVMRLPDSDVGQIPTVIFGTVNGVIGVIASLPHDQYLFLEKLQTNLRKVIKGVGGLSHEQWRSFYNEK 481 NEWFAPVGYSVNVATANATOVLLATGGGHLVYLEIGDGVLNEVKYAKLDYDISCLDINPIGENPNYSNIAAVGMWTDISV 641 THVFAASDRPTVIYSSNKKLLYSNVNLKEVSHMCPFNVAAFPDSLAIAKEGELTIGTIDEIQKLHIRSIPLGEHARRISH FIVVGDLMKSISLLÍFKHEEGAIEERARDYNANWMSAVEILDDDIYLGAENNFNLFTVRKNSEGATDEERSRLEVVGEYH 1041 KTVDAKNFLDGDLIESFLDLSRNRMEEISKAMSVPVEELMKRVEELTRLH